

Title (en)

BATTERY PACK STORAGE APPARATUS AND COOLING APPARATUS FOR POWER STORAGE BATTERY PACK USING SAME

Title (de)

BATTERIEPACK-SPEICHERVORRICHTUNG UND KÜHLVORRICHTUNG FÜR EIN ENERGIESPEICHERNDES BATTERIEPACK DAMIT

Title (fr)

APPAREIL DE STOCKAGE DE BLOCS-BATTERIES ET DISPOSITIF DE REFROIDISSEMENT DE BLOCS-BATTERIES DE STOCKAGE D'ÉNERGIE UTILISANT CET APPAREIL

Publication

EP 2685521 A4 20140924 (EN)

Application

EP 12777162 A 20120425

Priority

- KR 20110038383 A 20110425
- KR 2012003177 W 20120425

Abstract (en)

[origin: US2013323551A1] Disclosed is an apparatus for cooling a battery pack, having a stack having a plurality of battery pack containers in a multi-layered structure, the battery pack container having an inner space to receive a battery pack and includes a first and second side plate facing each other to form side walls of the inner space; two upper frames for respectively connecting the top corners of the first to the second side plate; and two lower frames for respectively connecting the bottom corners of the first to the second side plate, the two lower frames including a front lower frame, disposed forwardly within the container with an inflow hole for introducing cooling medium, and the two upper frames include a rear upper frame, disposed rearwardly within the container and having an outflow hole for discharging cooling medium after heat exchange occurs; a housing; a circulation driving module; and an exhaust duct.

IPC 8 full level

H01M 10/613 (2014.01); **H01M 10/625** (2014.01); **H01M 10/647** (2014.01); **H01M 10/6556** (2014.01); **H01M 10/6557** (2014.01); **H01M 10/6563** (2014.01); **H01M 50/77** (2021.01); **H05K 7/20** (2006.01); **H01M 50/209** (2021.01)

CPC (source: CN EP KR US)

H01M 10/613 (2015.04 - CN EP KR US); **H01M 10/625** (2015.04 - CN EP KR US); **H01M 10/647** (2015.04 - KR); **H01M 10/6556** (2015.04 - CN EP KR US); **H01M 10/6557** (2015.04 - CN EP KR US); **H01M 10/6563** (2015.04 - CN EP KR US); **H01M 50/209** (2021.01 - KR); **H01M 10/647** (2015.04 - CN EP US); **H01M 50/209** (2021.01 - CN EP US); **Y02E 60/10** (2013.01 - EP KR)

Citation (search report)

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CN103909849A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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US 2013323551 A1 20131205; **US 9461344 B2 20161004**; CN 103493243 A 20140101; CN 103493243 B 20151125; EP 2685521 A2 20140115; EP 2685521 A4 20140924; EP 2685521 B1 20180530; KR 101355961 B1 20140203; KR 20120120663 A 20121102; WO 2012148160 A2 20121101; WO 2012148160 A3 20130328

DOCDB simple family (application)

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